

**Table 8-1**  
**Opinion of Probable Cost of Construction**

Item	Qty.	Unit	Unit Cost	Subtotal
<b>1. Demolition and Clearing</b>				
A. Mobilization	10,000	LS	\$ 1.00	\$ 10,000
B. Clear and grub site	21,000	SF	\$ 0.10	\$ 2,100
C. Remove and dispose of asphalt paving	23,500	SF	\$ 1.10	\$ 25,850
D. Remove and dispose of concrete blocks and rubble	250	CY	\$ 25.00	\$ 6,250
E. Remove and dispose of wood bulkhead	1	LS	\$ 5,000.00	\$ 5,000
F. Remove and dispose of wood piles	1	LS	\$ 10,000.00	\$ 10,000
G. Salvage park's items (benches, boulders, logs) for reuse	1	LS	\$ 5,000.00	\$ 5,000
H. Miscellaneous demolition	1	LS	\$ 10,000.00	\$ 10,000
<b>Subtotal Demolition</b>				<b>\$ 74,200</b>
<b>2. Temporary Facilities</b>				
A. Temporary construction fencing: including staging area	1,200	LF	\$ 6.00	\$ 7,200
B. Tree protection fencing: north and south sides	700	LF	\$ 6.00	\$ 4,200
C. Temporary erosion control	1	LS	\$ 10,000.00	\$ 10,000
<b>Subtotal Temporary Facilities</b>				<b>\$ 21,400</b>
<b>3. Earthwork</b>				
A. Excavation of refuse to subgrade	12,400	Ton	\$ 7.00	\$ 86,800
B. Off-site disposal of excavated refuse	12,400	Ton	\$ 30.00	\$ 372,000
C. Purchase, deliver, and install cap material	3,300	Ton	\$ 20.00	\$ 66,000
D. Purchase and install Type A topsoil (above el. +10 MLLW)	600	CY	\$ 30.00	\$ 18,000
E. Purchase and install Type B topsoil (below el. +10 MLLW)	500	CY	\$ 30.00	\$ 15,000
F. Purchase and install well-graded gravel for cap protection	400	CY	\$ 25.00	\$ 10,000
G. Purchase and install spalls	1,300	CY	\$ 35.00	\$ 45,500
H. Purchase and install riprap	20	CY	\$ 40.00	\$ 800
I. Purchase and install surficial gravel	600	CY	\$ 25.00	\$ 15,000
J. Purchase and install geotextile	2,000	SY	\$ 10.00	\$ 20,000
<b>Subtotal Earthwork</b>				<b>\$ 649,100</b>
<b>4. Cast-in-Place Conc.</b>				
A. Concrete grid paving at entry points	1,133	SF	\$ 10.00	\$ 11,330
B. Concrete sidewalks and paths	623	SF	\$ 5.00	\$ 3,115
C. Concrete seatwalls	52	LF	\$ 50.00	\$ 2,600
D. Concrete thickened edge	25	LF	\$ 30.00	\$ 750
<b>Subtotal Cast-in-Place Concrete</b>				<b>\$ 17,795</b>
<b>5. Boardwalk and Viewpoints</b>				
A. 8' wide boardwalk with handrail and bullrail on pipe pile foundation	4,065	SF	\$ 44.20	\$ 179,673
B. Viewpoints/lookout with handrail on pipe pile foundation	673	SF	\$ 55.25	\$ 37,183
C. South Bank vegetation protection handrail	285	LF	\$ 41.65	\$ 11,870
C. Viewpoint 5' benches	8	EA	\$ 750.00	\$ 6,000
E. Reinstall salvaged benches, boulders and logs at upland viewpoint (next to hatchery)	1	LS	\$ 5,000.00	\$ 5,000
<b>Subtotal Boardwalk and Viewpoints</b>				<b>\$ 239,727</b>
<b>6. Planting and Irrigation</b>				
A. Temporary irrigation: riparian planting	20,690	SF	\$ 0.60	\$ 12,414
B. Coir fabric	1,000	SY	\$ 9.00	\$ 9,000
C. Planting: habitat restoration				
1. Trees				
Large 5'-6' ht. B&B	10	EA	\$ 102.00	\$ 1,020
Small 5 gal. 10' O.C.	25	EA	\$ 54.00	\$ 1,350
2. Shrubs				
2 gal. 5' O.C.	303	EA	\$ 18.00	\$ 5,454
1 gal. 3' O.C.	861	EA	\$ 13.50	\$ 11,624
1 gal. 2' O.C.	1,613	EA	\$ 13.50	\$ 21,776
Live stakes 2' O.C.	203	EA	\$ 2.00	\$ 406
3. Grasses 4" pot 2' O. C.	6,500	EA	\$ 7.50	\$ 48,750
D. Large woody debris placement	21	EA	\$ 200.00	\$ 4,200
E. Driftwood placement	1	LS	\$ 8,000.00	\$ 8,000
F. Goose enclosure	10,500	SF	\$ 1.50	\$ 15,750
G. Hydroseed: Ecology lawn	1,303	SF	\$ 0.25	\$ 326
H. Mulch: riparian area	170	CY	\$ 25.00	\$ 4,250
<b>Subtotal Planting and Irrigation</b>				<b>\$ 144,319</b>

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<b>7. Monitoring</b>				
A. Surveying	1	LS	\$ 20,000.00	\$ 20,000
B. Water quality monitoring	1	LS	\$ 40,000.00	\$ 40,000
<b>Subtotal Monitoring</b>				<b>\$ 60,000</b>
<b>8. Integrated Art Budget</b>	1	LS	\$ 20,000.00	<b>\$ 20,000</b>
<b>Subtotal Construction</b>				<b>\$ 1,206,540</b>
Contingency (15%)				<b>\$ 180,981</b>
<b>Subtotal</b>				<b>\$ 1,387,521</b>
Sales Tax (8.1%)				<b>\$ 112,389</b>
<b>TOTAL ESTIMATED COST</b>				<b>\$ 1,499,911</b>
<b>Other Costs:</b>				
Construction administration / documentation 10%				\$ 138,752
Contract administration 5%				\$ 69,376
Year 2 long-term monitoring and reporting				\$ 60,000
Year 5 long-term monitoring and reporting				\$ 50,000
Year 10 long-term monitoring and reporting (if needed)				\$ 40,000
<i>Note: This Opinion of Probable Cost is made on the basis of the Consultant's professional judgement and experience. The Consultant has no control over the cost or availability of labor, equipment, or materials, nor over market conditions that might affect the bidders' method(s) of pricing. The Consultant therefore makes no warranty, express or implied, that the bids or negotiated cost of the Work will not vary from this, the Consultant's opinion of the probable construction cost.</i>				